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Event Mesh for Airlines

Move events and other real-time data within and across your distributed airline systems

Air travel continues to grow, but with per-seat margins under pressure, airlines are looking for new ways to grow profitably. That includes offering unique passenger experiences that build loyalty and generate revenue while optimizing operations both on the ground and in the air.

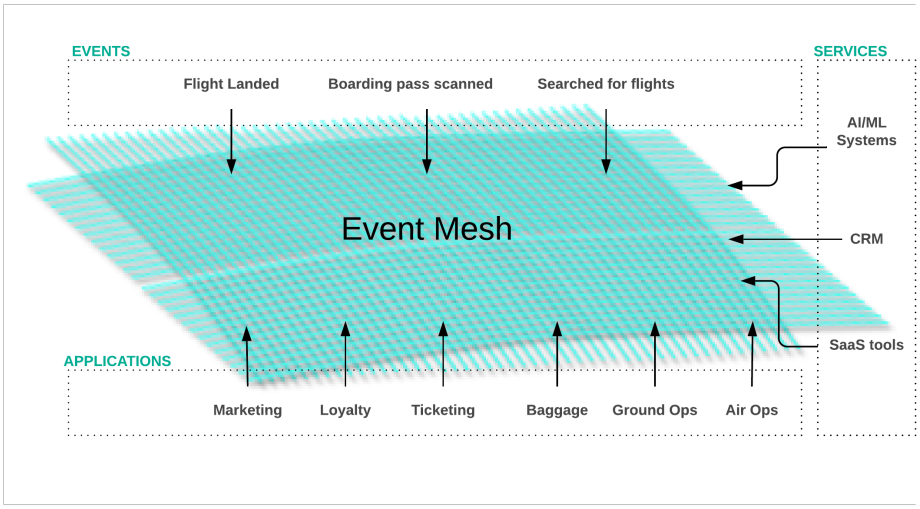
Unfortunately, the airline ecosystem is heavily siloed and fragmented across geographies, so it's critical to establish a unified platform that delivers your data across your airline and the ecosystem – including third parties.

PubSub+ Platform meets that need.

- Integrate systems in real-time and across hybrid and multi-cloud environments.
- Achieve scale and flexibility in cloud-native and hybrid deployments
- Adopt new cloud-native technology with minimal disruption
- Create a high performance, robust and well governed environment.

Accelerate Your Digital Transformation with an Event Mesh Powered by PubSub+

An event mesh is an architecture layer that efficiently moves events between distributed apps and systems. It is more efficient, flexible and agile than alternative solutions because of its unique dynamic message routing capability, because it can run anywhere, and because it supports a variety of open protocols and APIs that enable modern polyglot application development without lock-in. Your domain-driven design efforts can now rapidly manifest through decoupled services and solutions that improve customer experience, enhance safety and optimize ground operations.



What an Event Mesh can do for your Airline

- **Integrate cloud services** with support for APIs and protocols including MQTT, JMS, AMQP, HTTP/REST and WebSocket.
- **Devise strategic and sophisticated workflows** like the addition of AI/ML helpers to existing customer interaction work flows for increased personalisation and response speeds.
- **Collect and distribute data from geographically dispersed digital customer touchpoints** to craft a personalized and responsive customer experience.
- **Stream events and other data from edge devices and apps** to core systems and cloud services for real-time and predictive decision making.
- **Optimize operations with real-time decision making** on fuelling, crew roster, integration with suppliers/partners, and predictive technologies for better command and control.
- **Improve performance and security** through low latency, high availability, disaster recovery, guaranteed delivery, WAN optimization, burst handling, throttling, system monitoring, and end to end security including authentication, authorization and encryption.

Key Features

"Aviation strength" reliability and performance

PubSub+ comes with low latency, high availability, disaster recovery, guaranteed delivery, WAN optimization, burst handling, throttling, system monitoring, and end-to-end security (authentication, authorization, encryption).

You can work across environments, across regions, and be prepared to work through fluctuating system behaviors and unpredictable connections in emerging markets.

Dynamic: self-routing, self-learning and self-healing

PubSub+ automatically and efficiently routes events between producer and consumer applications, wherever they run. It supports a variety of message exchange capabilities and patterns (publish-subscribe, queuing, streaming, request-reply).

You can build lean and efficient integrations with on-premises and cloud services so you can reduce integration time, eliminate duplicate data feeds and innovate more efficiently.

Real-time command and control across protocols and languages

PubSub+ will help you connect with internal systems, airports and standards-based third-party services like day-of-travel APIs to manage things like baggage belt allocation, staffing at boarding gates and ground crew movement.

You are not restricted by the variety of platforms in your ever-evolving ecosystem because PubSub+ support APIs for Java, C, .NET, Node.js and embedded C. You can exchange information using a range of protocols like MQTT, JMS, AMQP, HTTP/REST and WebSocket.

Full visibility of events and intuitive modeling of application domains

Discover and unlock the value of common and latent events in your ecosystem. PubSub+ gives your architecture and system design teams the ability to intuitively and visually work with events and generate transformational designs.

Advanced Broker Features and industry-leading scale to deliver consistent performance across your ecosystem.

- Support for publish-subscribe, queuing, streaming, request/ reply
- Reliable, guaranteed delivery, ordered event streams
- Built-in high availability (HA) and disaster recovery (DR): active-active or active-standby redundancy
- Message replay
- Event and message prioritization, dead message queues
- Wildcards, filtering for topics

PubSub+ Appliance:

- Non-persistent throughput: 28M messages/sec
- Persistent throughput: 5.5M messsages/sec

PubSub+ Software:

- Non-persistent throughput: 1.9M messages/sec
  Persistent throughput: 288K messages/sec
- 200K concurrently connected devices per broker instance

PubSub+ Cloud:

- Fully managed service available on all popular public and VPC environments

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Solace helps large enterprises become modern and real-time by giving them everything they need to make their business operations and customer interactions event-driven. With PubSub+, the market's first and only event management platform, the company provides a comprehensive way to create, document, discover and stream events from where they are produced to where they need to be consumed – securely, reliably, quickly, and guaranteed. Behind Solace technology is the world's leading group of data movement experts, with nearly 20 years of experience helping global enterprises solve some of the most demanding challenges in a variety of industries – from capital markets, retail, and gaming to space, aviation, and automotive. Established enterprises such as SAP, Barclays and the Royal Bank of Canada, multinational automobile manufacturers such as Renault and Groupe PSA, and industry disruptors such as Jio use Solace's advanced event broker technologies to modernize legacy applications, deploy modern microservices, and build an event mesh to support their hybrid cloud, multi-cloud and IoT architectures. Learn more at solace.com.